

### Amendments to the Claims

Kindly amend claims 1-3, 5-15 & 17 as set forth below. In compliance with the Revised Amendment Format published in the Official Gazette on February 25, 2003, a complete listing of claims is provided herein. The changes in the amended claims are shown by strikethrough (for deleted matter) and underlining (for added matter). Double brackets indicate deleted matter if strikethrough is not easily perceived.

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1. (Currently Amended) A method for managing a hierarchical file system comprising:

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providing a transaction ~~program means~~ manager arranged for ~~[[a]]~~ cooperation with ~~said hierarchical file system and with one or more~~ a file resource manager managers, said file resource manager managing said hierarchical file system, ~~said transaction~~ program means manager implementing transactional functionality via, in part, said file resource manager to effectuate consistent transactional changes to one or more files of said hierarchical file system and to data of one or more resources separate from the hierarchical file system ~~managed by said one or more managers~~, wherein the data of said one or more resources is managed by said one or more managers are related to the one or more files of said hierarchical file system, and wherein said consistent transactional changes are initiated by said transaction manager and are accomplished, in part, via said file resource manager.

2. (Currently Amended) The method according to claim 1 in which said transaction ~~program means~~ manager implements a commit and/or rollback facility.

3. (Currently Amended) The method according to claim 1 in which ~~said transaction~~ said file resource manager is ~~program means~~ is arranged for communicating with said file system via a protocol directed to cover changes made to said file system.

4. (Original) The method according to claim 3 in which said protocol is XDMS or is derivable from XDMS, or comprises XDMS-equivalent functions.

5. (Currently Amended) A method for managing a file system comprising using said transaction ~~program means~~ manager and said one or more file resource manager according to claim 4 implemented for a cooperation with said file system.

6. (Currently Amended) [[A]] The computer system of claim 13, wherein said file resource manager is arranged for communicating with said file system via a protocol directed to cover changes made to said file system, and wherein said protocol is XD SM or is derivable from XD SM, or comprises XD SM-equivalent functions ~~being able to access a file system which is manageable by transaction program means according to a method of claim 4.~~

7. (Currently Amended) [[A]] The computer program of claim 14, for execution in a data processing system comprising computer program code portions wherein said file resource manager is arranged for communicating with said file system via a protocol directed to cover changes made to said file system, and wherein said protocol is XD SM or is derivable from XD SM, or comprises XD SM-equivalent functions for performing the steps of the method of ~~claim 4.~~

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8. (Currently Amended) [[A]] The computer program product of claim 15, stored on a computer usable medium comprising computer readable program means wherein said file resource manager is arranged for communicating with said file system via a protocol directed to cover changes made to said file system, and wherein said protocol is XD SM or is derivable from XD SM, or comprises XD SM-equivalent functions ~~for causing a computer to perform the method of claim 4.~~

9. (Currently Amended) The method according to claim 1 in which said ~~transaction program means is~~ one or more file resource manager is implemented as utilizing a stacked file system.

10. (Currently Amended) The method according to claim 1 in which said ~~transaction program means is~~ file resource manager is implemented in the file system itself.

11. (Currently Amended) The method according to claim 1 in which said ~~transaction program means processes~~ file resource manager processes commands issued by said transaction manager means arranged for cooperating with a database management system.

12. (Currently Amended) A method for managing a file system comprising using said transaction ~~program means~~ manager according to claim 1 implemented for a cooperation with said file system.

13. (Currently Amended) A computer system being able to access a hierarchical file system which is manageable by a transaction ~~program means~~ manager according to a method of managing a hierarchical file system comprising:

02 providing a transaction manager ~~program means~~ arranged for [[a]] cooperation with ~~said hierarchical file system and with one or more~~ a file resource manager managers, said file resource manager managing said hierarchical file system, said transaction ~~program means~~ manager implementing transactional functionality via, in part, said file resource manager to effectuate consistent transactional changes to one or more files of said hierarchical file system and to data of one or more resources separate from the hierarchical file system managed by said one or more managers, wherein the data of said one or more resources is managed by the one or more managers are related to the one or more files of said hierarchical file system, and wherein said consistent transactional changes are initiated by said transaction manager and are accomplished, in part, via said file resource manager.

14. (Currently Amended) A computer program for execution in a data processing system comprising computer program code portions for performing the steps of providing a transaction ~~program means~~ manager arranged for [[a]] cooperation with ~~a hierarchical file system and with one or more~~ a file resource manager managers, said file resource manager managing a hierarchical file system, said transaction ~~program means~~ manager implementing transactional functionality via, in part, said file resource manager managing said hierarchical file system, to effectuate consistent transactional changes to one or more files of said hierarchical file system and to data of one or more resources separate from the hierarchical file system managed by said one or more managers, wherein the data of said one or more resources managed by said one or more managers are related to the one or more files of said hierarchical file system, and wherein said consistent transactional changes are initiated by said transaction manager and are accomplished, in part, via said file resource manager.

15. (Currently Amended) A computer program product stored on a computer usable medium comprising computer readable program means for causing a computer to perform the method of managing a hierarchical file system comprising:

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providing a transaction ~~program means~~ manager arranged for ~~[[a]]~~ cooperation ~~with said hierarchical file system and with one or more~~ a file resource manager managers, said file resource manager managing said hierarchical file system, said transaction ~~program means~~ manager implementing transactional functionality via, in part, said file resource manager to effectuate consistent transactional changes to one or more files of said hierarchical file system and to data of one or more resources separate from the hierarchical file system ~~managed by said one or more managers,~~ wherein the data of said one or more resources ~~is managed by said one or more managers~~ are related to the one or more files of said hierarchical file system, and wherein said consistent transactional changes are initiated by said transaction manager and are accomplished, in part, via said file resource manager.

16. (Previously Presented) The method for managing a hierarchical file system of claim 1 wherein the files have different file formats.

17. (Currently Amended) The method for managing a hierarchical file system of claim 1 wherein the transaction ~~program means~~ manager implements transactional functionality to effectuate changes to files of said hierarchical file system notwithstanding that said files have unknown file formats.

18. (Previously Presented) The method for managing a hierarchical file system of claim 1 wherein the one or more resources managed by the one or more managers comprises data in a database.

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